

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/62/9/13
Source:	' //40
Date Processed by STIC:	8/20/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER

VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND

TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1 EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
- 3. Hand Garry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
 U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

•	ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/621,911	
	ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE	
	IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
	2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	705
	4_U_Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
	5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
	6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
TOTAL MENTAL SERVICES	(OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
		Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
	8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
	9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
·	10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
o	11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
	13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/621,911

DATE: 08/20/2004

TIME: 11:03:31

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

3 <110> APPLICANT: SAITOU, Mitinori

SURANI, Azim

6 <120> TITLE OF INVENTION: Genes

8 <130> FILE REFERENCE: 674558-2002

10 <140> CURRENT APPLICATION NUMBER: 10/621,911

11 <141> CURRENT FILING DATE: 2003-07-17

13 <150> PRIOR APPLICATION NUMBER: PCT/GB02/00215

14 <151> PRIOR FILING DATE: 2002-01-18

16 <150> PRIOR APPLICATION NUMBER: GB 0101300.2

17 <151> PRIOR FILING DATE: 2001-01-18

19 <160> NUMBER OF SEQ ID NOS: 26

21 <170> SOFTWARE: SeqWin99, version 1.02

Important see den 4
on Enor
Summany
Does Not Company
Sheet

pp1,4,5,6

ERRORED SEQUENCES

95 <210> SEQ ID NO: 4 96 <211> LENGTH: 150

97 <212> TYPE: PRT

98 <213> ORGANISM: Mus musculus

100 <400> SEQUENCE: 4

101 Met Glu Glu Pro Ser Glu Lys Val Asp Pro Met Lys Asp Pro Glu Thr

10

104 Pro Gln Lys Lys Asp Glu Glu Asp Ala Leu Asp Asp Thr Asp Val Leu

107 Gln Pro Glu Thr Leu Val Lys Val Met Lys Lys Leu Thr Leu Asn Pro

40

110 Gly Val Lys Arg Ser Ala Arg Arg Arg Ser Leu Arg Asn Arg Ile Ala

55

113 Ala Val Pro Val Glu Asn Lys Ser Glu Lys Ile Arg Arg Glu Val Gln _ 75 70

116 Ser Ala Phe Pro Lys Arg Arg Val Arg Thr Leu Leu Ser Val Leu Lys

90

119 Asp Pro Ile Ala Lys Met Arg Arg Leu Val Arg Ile Glu Gln Arg Gln

105

122 Lys Arg Leu Glu Gly Asn Glu Phe Glu Arg Asp Ser Glu Pro Phe Arg

120 115

125 Cys Leu Cys Thr Phe Cys His Tyr Gln Arg Trp Asp Pro Ser Glu Asn

Lys Asn 150 150 mesabgred arreis oud numbers - see ten 3 on Euro Surmay Steet 128 Ala Lys Ile Gly Lys Asn E--> 129 145

253 <210> SEQ ID NO: 7

254 <211> LENGTH: 7656

PATENT APPLICATION: US/10/621,911

DATE: 08/20/2004 TIME: 11:03:31

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Output Set: N:\CRF4\08202004\J621911.raw

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		NISM: Rattus	s sp	1/7			
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					ttgagcagag		
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					cattcacaga		
					aggaaatccg		
					tcatctgtta		
					gcagctcaca		
					aggcatacac		
					agctctgaga		
					cctttcccac		
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					atagttgagc		
					tgaatcaaat		
					aattttattt		
					aggctctcac		
					aaactcaaga		
					catgtttagg		
					ttccccggag		
279	cacatactta	aaccagaacc	agaggaagtg	tgtttacagt	taccctggga	gaccagaaga	1260
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					ctcatggtga		
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					acaacataga		
					tctctattga		
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					taaagattta		
					gcatcagatc		
					ggacctctgg		
					ggagctgggg		
					aaatccccaa		
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297	agetaggag	tagettagee	accecgaegg	atanagana	aggggtgttg	catgaagtga	2400
270	taanantaa	atttasatsa	ayaycaaadc	ttaataatta	acctgactgc	ttattttta	2460
299	Lggagatgcc	guilyagiac	acygygetet	tatasasata	ttgttttgtt	dadaaaatd	2520
300	atatatata	tatagacacat	goracagroa	ttttastasa	aaacttaatt	taaaaaaast	2520
30T	ccctgtattt	rereeggeee	cctaagttgc	anathaant	tgtattttta	gagaggtaa	2500
302	agaaactcta	actaagatag	allygtatta	yaaytayaat	attgctgtaa	gaagagagaga	2700
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PATENT APPLICATION: US/10/621,911 TIME: 11:03:31

DATE: 08/20/2004

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

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		agttaagaat					
307		ccactaaagt					
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		gatttagctc					
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		gatctgtttg					
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319	aaagagaagg	gggagcccct	gagctggaga	gatttaaagt	agggggcagg	atgagaagtg	3660
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		gcaagaaaat					
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		gcaaactaga					
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		catctctgat					
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		tctttcagca					
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		aatctttgga					
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353	ctattcctcq	aggtctggat	cagaagcttg	tgtatttcat	ttccggattg	tcgttcactc	5700
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DATE: 08/20/2004 TIME: 11:03:31

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

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    356 ctgctctttt tcttcttgga cataggattc agcaacattc tacttcttga tgccccttta 5880
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    361 cataaaataa aaataaatca acatacataa aataaaaata atttttaaaa aaaaaaggtg 6180
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     367 agtetecaaa tetatattet teeaaataaa ageatggtea gaeetaeeta teacageaat 6540
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     373 ttttttttaa aggtttattt attttatgta tatgagtaca ctgtagctgt cttcagatac 6900
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     378 ctacctcttg atccaaaggc agaccaaaaa aaagactggc ttacgggctt accataagca 7200
                                                                                      Sell
enor
Holandin'
on
     379 gctaagagga aggteteaaa geecaceeta eagtggeatg tteteeaaca aggeeacate 7260
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     382 gcctcttatt gtttgagctc agcatcctgt ttttcaaaag gctgcttgtc atcacagtgg 7440
E--> 383 tttgttccac aactetecca gtttetttgt naaacacca atgeetagag agatgetett 7500
E--> 384 ctgtacatat cgcatgtgca gaagaaaggg tgccagatcc tttcatgtgg accntgtcat 7560
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     391 <213> ORGANISM: Rattus sp
     393 <400> SEQUENCE: 8
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     396 gggggaggc atggaaagaa aggcgggggg gggagataac atgcggggga agtaagaggg 180
     397 ggggggtaag gagggtacag gtagcacagg tggggggaag agaggggagg gggggaatgg 240
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399 tggaccagaa cgggggaagg gccacatttg ggtgggcggg aacagaaagg aaatcttttt 360 400 aaatcggttg ggtcgcaggg tgggtggaca ttgagaaaaa aatcatcaaa gcccctaagg 420 401 agcatttgtt tcggagttat acgtatggat attttattat atgggacgag agataaagaa 480 402 tacttcttaa qtaatccctt taaaaataat gtcaggctgg agaaatggtt tcatgggtaa 540 403 gcaagtgtga gagatgagcg cagaccccca ggacctgtgt agacttaatg cagaggtgga 600 404 tgcacgcctg taatctcagc atgcctacag ccagatagga gatggggaca gagaagtgtg 660

PATENT APPLICATION: US/10/621,911

DATE: 08/20/2004 TIME: 11:03:31

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

405 ggggccaact agcctggtgt ctacagcctg gtgtcaacag cagcctccta cctcaaacaa 720 406 ggtggaaggt aagggetgat acctgagate gttgtetgae etceacacae attgtgetta 780 407 tactttacac acatactcac actcacacat acatacacat atatacctgg tctccattag 840 408 gcttctattg ctgtgataaa gattacgacc gaggtctttc caaagactaa gcagttttgt 900 409 ttgcagctag tttttgaggc ttctgcccac caccatggag gagccattag agaaatcgac 960 410 ccaqttqtqq acccaqaaac tcctcagacg aaagatgaaa aggacgcatc cgctgattca 1020 411 gaagtegtaa geeagaaaca etagtaaagg teatgaaaac getageeetg aaccccagtg 1080 412 ccaageggte ageacategt egeageetee gteteeggat teagagaaga eetgtggaga 1140 413 acagaagtga aagaatttcg agggaagttc aaagcgcttt acccaagaga agggtccgca 1200 414 cgttgttgtc ggtgctgaga gatcctatag caaggatgag aagacttgtt gggattgagc 1260 415 agagacaaca caggctggaa ggaaatgagt agaaacggaa gagtgtgcca ttcagactca 1320 416 ctgtgctttc tgccattatc agagacggga tccgtctgag aacgctaaaa tcgggaagca 1380 417 ttaqqacaqc ttaqattqta cactgtcctt gtgttaatga tgccatgcag cagacctgaa 1440 418 agetggettt tgetttttaa gattaacett tteetggtge tgggggaetet tetaaettgt 1500 419 taacctttaa attatatagg gtgcgtgatg tttggattca tgtgaatgac ttaaatttac 1560 420 ccaaagaatt gagaaggagt caaagcattc tgtgaatttt tgaagcctca agcccggggc 1620 421 cqaqaaacaa tqttaataga atttggaata gtttggttta gaaggtaatt gggatagatc 1680 422 tctqaatttt ctagtttgca aaaacaaaaa caaaaaaaaa gactaaaaaa acaactgggg 1740 423 aggagtaagg ttatttcagc ctccatgtct tgatcccagt ccatcatgaa aggaagtcag 1800 424 gacaggaact caagtcagga ccgtggaagt aggtagcatc tgaagcagag acttctggga 1860 425 tgaaageget getteetgae tegeteecea caaattggte eetgageett ettgteeace 1920 426 ctcggacccc ttgcctaggg ttggcaccac ccacaatggg ctgagccttc ccatgtcaat 1980 427 cactaattaa gaaaatgetg tacagegttg eetacaaace agtettaagg aggegtttte 2040 428 tocattqtqq ototototto totgataact otagottgtg toaaattgac aaccaaccag 2100 E--> 429 ccagcacaca aacanttaaa aagatagaaa taatgttagt finitchtatc gagcaagagt 2160 430 c 2161

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/621,911

DATE: 08/20/2004

TIME: 11:03:32

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

TO COLUMN TO MAKE A MAKE A

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of $\langle 220 \rangle$ to $\langle 223 \rangle$ is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

residue i or had represents.

Seq#:7; N Pos. 7471,7554,7608

Seq#:8; N Pos. 2115,2142,2143,2146

VERIFICATION SUMMARY

DATE: 08/20/2004

PATENT APPLICATION: US/10/621,911

TIME: 11:03:32

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

L:129	M:332	Ε:	(32)	Inva	alid	l/Missi	ing Ami	ino Acid	Numbering,	SEQ	ID:	4
L:383	M:340	E:	(46)	"n"	or	"Xaa"	used:	Feature	required,	for	SEQ	ID#:7
L:384	M:340	E:	(46)	"n"	or	"Xaa"	used:	Feature	required,	for	SEQ	ID#:7
L:385	M:340	E :	(46)	"n"	or	"Xaa"	used:	Feature	required,	for	SEQ	ID#:7
L:429	M:340	E:	(46)	"n"	or	"Xaa"	used:	Feature	required,	for	SEQ	ID#:8